

**DVN**  
Lighting

San Francisco  
**WORKSHOP**

Speaker  
**Josip Kovacevic**  
Sales and support Office Europe  
**Kyocera SLD Laser**

“LaserLight changes the paradigms for Safety, Communication and Styling”



„LaserLight changes the paradigms for Safety, Communication and Styling.“

## Brighter

- **>1200cd/mm<sup>2</sup> vs 200cd/mm<sup>2</sup> from LED,**  
creates much greater light & luminous intensity

## Smaller

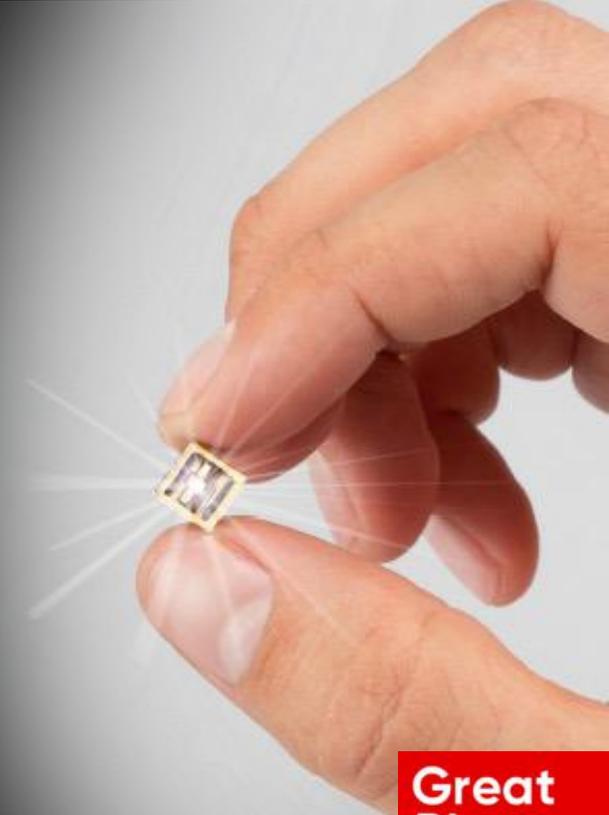
- **350 μm LES vs 1mm from LED,**  
enables unconventional shapes and ultracompact packaging

## Farther

- **1km from 35mm reflector vs 100m from LED,**  
up to 300m for ADAS & LiDAR

## Faster

- **>2 Gbps data transfer vs 100 Mbps from LED,**  
which is a multiple of 5G



Great  
Place  
To  
Work®

Certified  
JUL 2019-JUL 2020  
USA



## KYOCERA SLD Laser Won The 2023 PRISM Award in The Category of Lasers For Their LaserLight LiFi

Kyocera SLD Laser, a world leader in the commercialisation of laser light sources, has been awarded an award at the SPIE Photonics West Exhibition 2023.

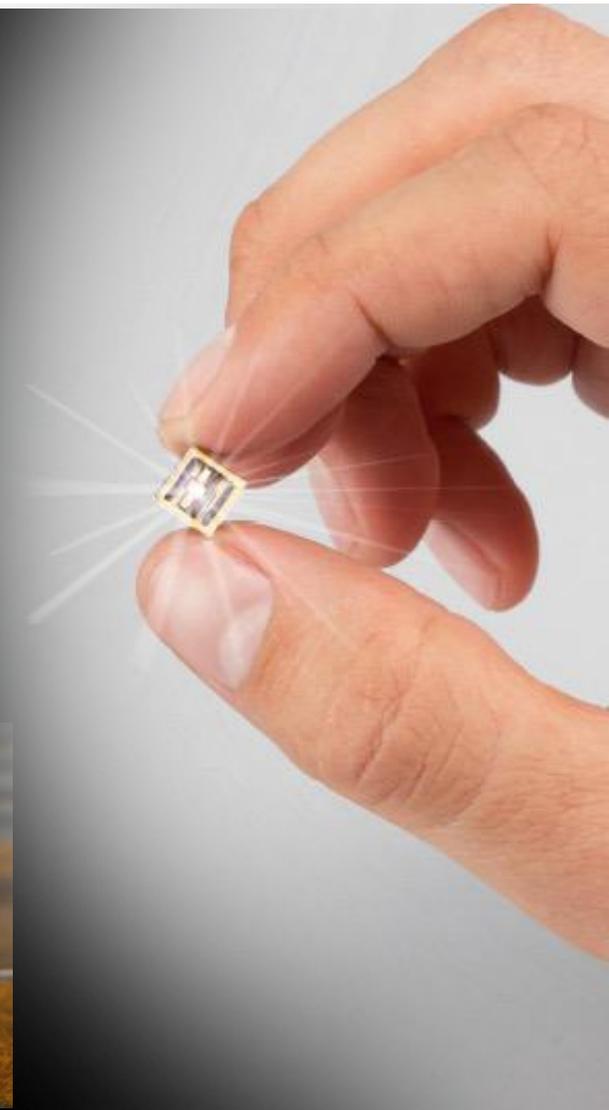
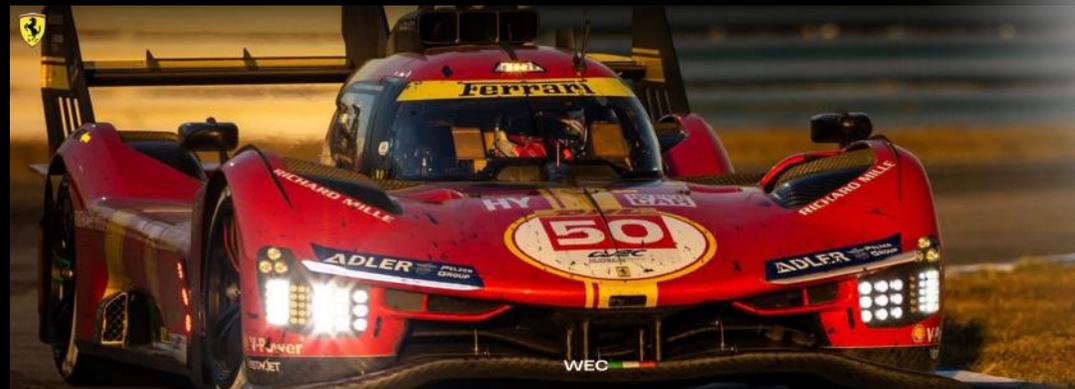
KSLD demonstrated their DataLight™ high-speed LiFi communication system, a 2023 Prism Award finalist, as well as its new innovations in high-efficiency laser diodes for AR/VR applications and efficient optical power transfer technology.

# KSLD LaserLight wins 2023



World's most prestigious track race with 12 and 24 hours

- 1<sup>st</sup> place Daytona 24hrs LMDh
- 1<sup>st</sup> place Sebring 12hrs LMDh
- 1<sup>st</sup> place LeMans 24hrs



# LaserLight Fiber™ for Automotive



BMW Laser Matrix Beam  
Next Generation BMW M5 / 5 Series  
/ iX 2022

- Eyesafe
- Laser Class 1
- **400lm >1200cd/mm<sup>2</sup>**
- No External Photo Diode required
- passive Cooling, compact size
- Embedded in Matrix System
- Dynamic movement
- On / off in relation to Matrix Sequences

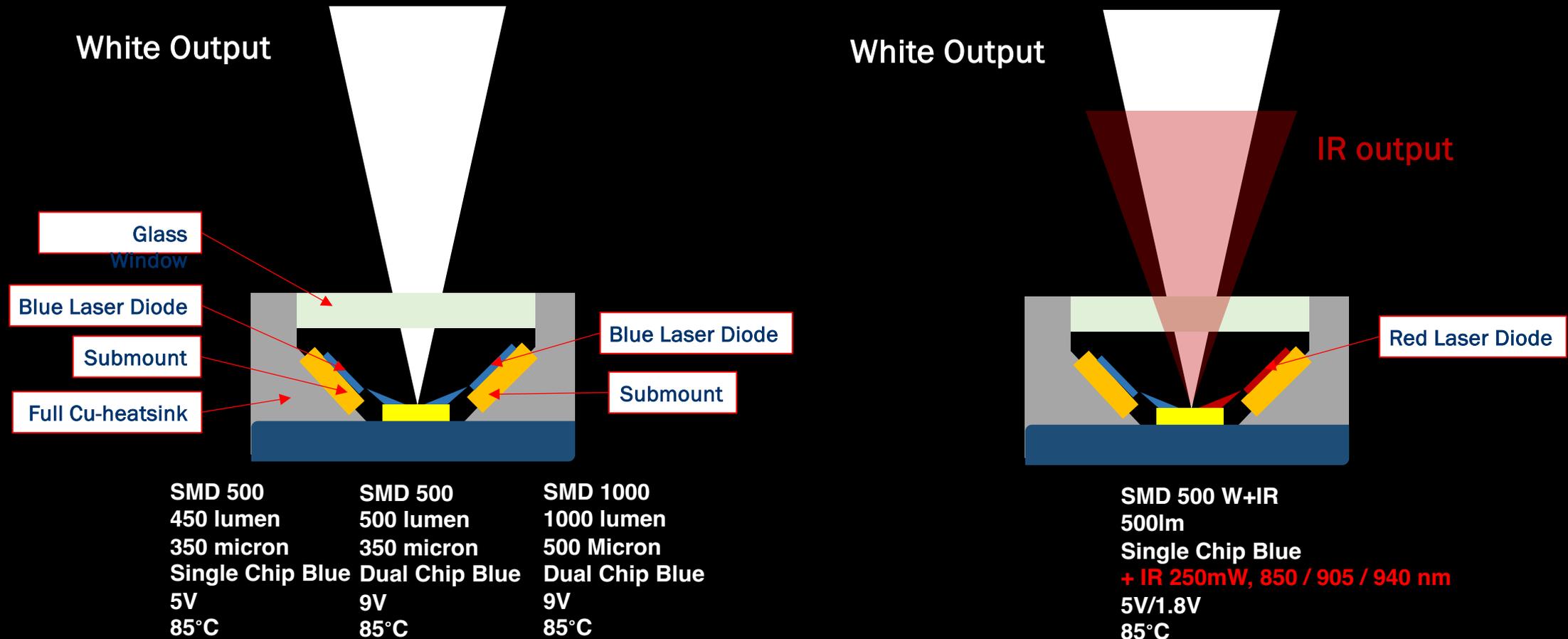


“**LaserLight SMD** enables digital content by  
using Sensing and NightVision  
from the same spot”

# LaserLight SMD White & White + IR



World's only LaserClass 2 Reflective System in one unique 7x7 mm Package



# LaserLight SMD White + IR enables NightVision



## Night



White Light



Near Infra Red (NIR)

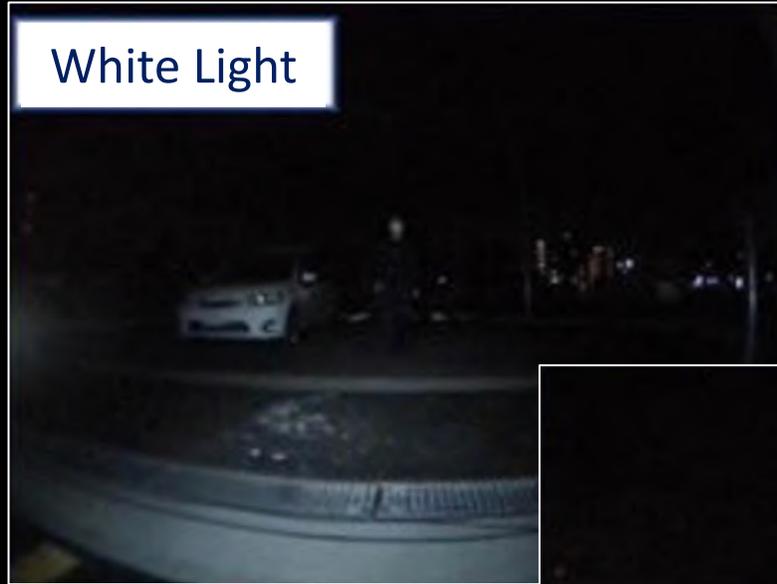
## Night & Fog



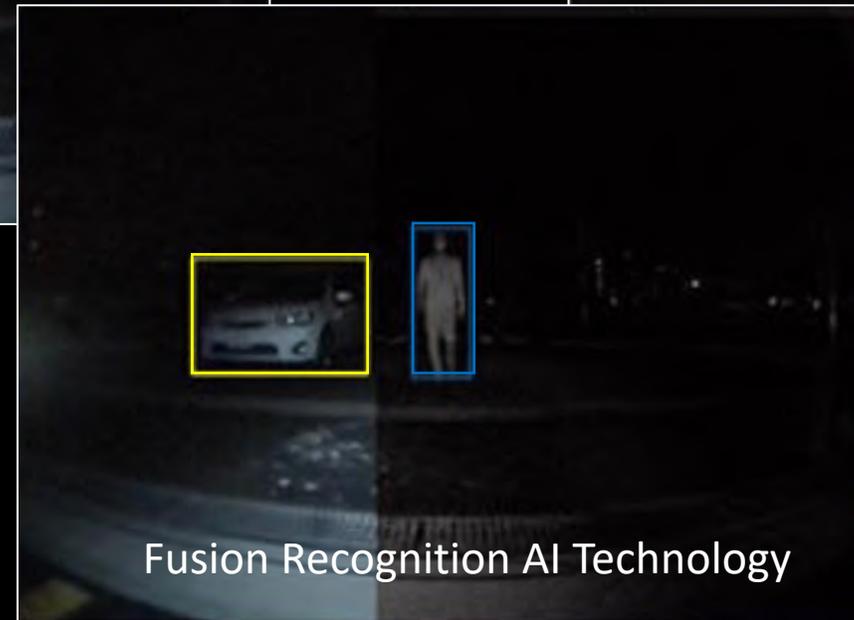
Substantial reduction of veil glare in NIR (850nm). IR Illumination remain even if white is on.



# Object recognition adding AI technology

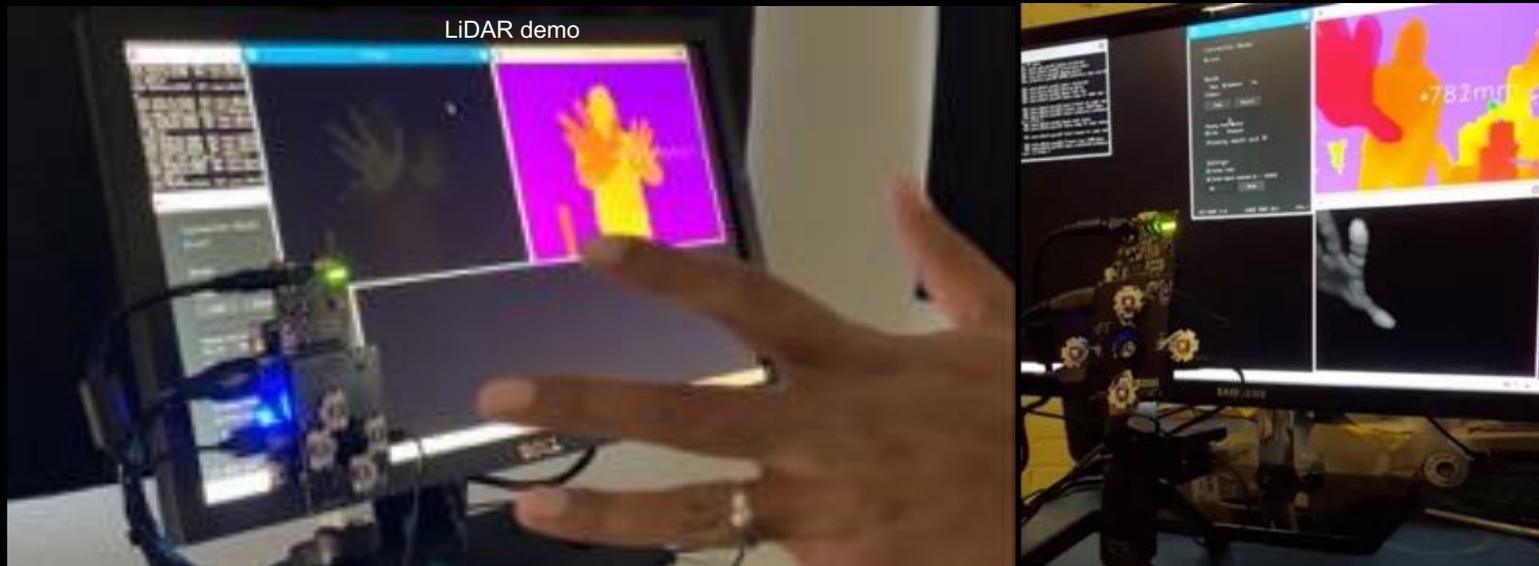


Instead of simply combining the image data from the two sources, Kyocera's system uses qualitative AI to compare and assess both RGB and NIR images, differentiating between pedestrians and vehicles with high accuracy even in low visibility conditions.

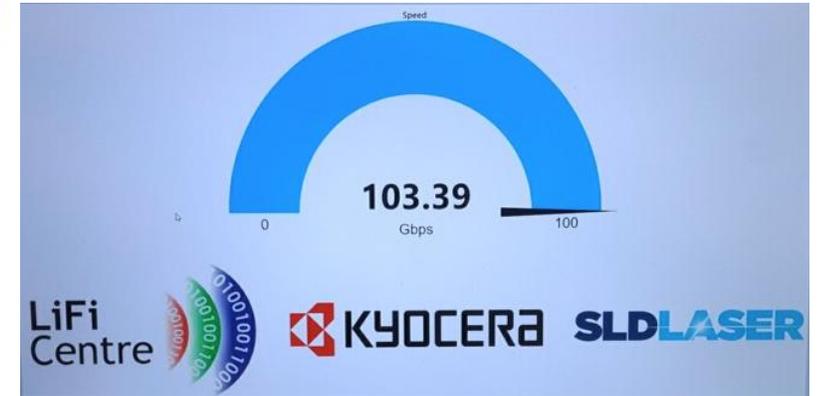


# Object recognition with high pulsed IR

Handheld rangefinding spotlight with up to 250 meter distance & 1% accuracy.  
3D flash LiDAR demonstrated at video speed and VGA resolution.



**CES 2022**  
What happens, as it is happening!



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## KYOCERA SLD Laser Achieves World Record LiFi Communications Data Rate 100 times faster than 5G

*Company to Demonstrate Award-Winning >90 Gbps DataLight LiFi Innovation and for Automotive and Consumer Applications at the Consumer Electronics Show, January 5 - 7, 2022 in Las Vegas, NV*

January 05, 2022 05:19 PM Eastern Standard Time



# LaserLight Summary



## FEATURES

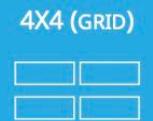
- Dual emission White/IR for night vision and sensing
- High brightness and high efficiency
- Slim profile, modular design for styling



FiberLight White

- HB Narrow+Sensing
- HB Wide+Night Vision
- LB Wide
- LB Cut Off

## LaserLight Headlight Modules CONFIGURATIONS



# Thank you

